# GOVERNMENT OF INDIA
# EARTH SCIENCES
# LOK SABHA

UNSTARRED QUESTION NO:174
ANSWERED ON:09.07.2014
TSUNAMI WARNING SYSTEM IN INDIAN OCEAN
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**Will the Minister of EARTH SCIENCES be pleased to state:**

(a) whether Tsunami Warning System has been installed and is fully functional in the Indian Ocean;

(b) If so, the details thereof and the extent of data collection from this system; and

(c) the reaction time that will be available to alert people in the country about any imminent danger of Tsunami or earthquake?

## Answer

MINISTER FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTRY OF EARTH SCIENCES (DR. JITENDRA SINGH)

(a) Yes Sir.

(b) The Indian Tsunami Early Warning Centre (ITEWC) was established and made fully functional since 2007 and is now rendering operational services as a Regional Tsunami Watch Provider (RTWP) for whole of the Indian Ocean Region by the Earth System Science Organization − Indian National Centre for Ocean Information Sciences (ESSO-INCOIS) located in Hyderabad. ITEWC comprises real-time seismic monitoring network broadband seismic stations apart from national and international seismic stations to detect under- sea tsunamigenic earthquakes from the two known subduction zones of the Andaman-Sumatra and the Markran coast in the Indian Ocean which can potentially affect the Indian coastal states and Island regions, a network of 6 real-time sea-level sensors with Bottom Pressure Recorders(BPR) in the open ocean, HF Radars for coastal currents and 25 coastal tide gauge stations to capture tsunami wave amplitude on 24 x 7 basis. The data is analysed on a continuous basis. All types of data collected from the ITEWC are fully archived and is fully accessible to the Decision Support System (DSS). A host of communication systems are being employed for timely dissemination of advisories.

(c) The centre is capable of detecting tsunamigenic earthquakes occurring in the Indian Ocean region as well as in the Global Oceans within 10 minutes of their occurrence and disseminated the advisories to the concerned authorities within 20 minutes through various modes of communication like email, fax, SMS, GTS and website.